

COMPANY Amerind Oil Company
LEASE NAME & NO. State "16" #1-K 2000/8+22
INTERVAL TESTED 8999 - 9162 163'

16-17-37

COUNTY Lea
STATE New Mexico
FORMATION Lower Bone Spring

DATE October 18, 1988
TICKET # 6729
TEST # 2

WIRE LINE TEST DATA							
BOTTOM HOLE CHOKE	5/8" SURFACE		Adj.	CUSHION	None	ELEVATION	3775'
TIME TOOL OPENED			8:29 P.M.				G.L.
TOOL OPEN BEFORE I.S.I.P.			5	MIN.	TYPE	AK-1	CAPACITY 8375#
INITIAL SHUT-IN	1	HRS.	0	MIN.	TOP	13832	DEPTH 8982'
TOOL OPEN	1	HRS.	0	MIN.	BOTTOM	13833	DEPTH 9159'
FINAL SHUT-IN	3	HRS.	0	MIN.	CLOCK TOP	18 Hr.	BOTTOM 24 Hr.
SURFACE ACTION Preflow: Open with a weak blow increasing to 17" of water @ 5 min.							
Final Flow: Open with a good blow increasing to 27" of water @ 5 min,							
38" @ 10 min.; 45" @ 15 min.; 52" @ 20 min.; 61" @ 25 min.;							
66" @ 30 min.; Opened to pit on 1/2" choke @ 32 min. 51" @ 35 min							
Changed choke to 3/4" @ 35 min. 34" @ 40 min.; 22" @ 45 min.;							
15" @ 50 min.; 10" @ 55 min.; and 8" @ 60 min.							
RECOVERY Approx. 3720' gas in pipe							
250' Total Fluid							
50' Very heavy oil and gas cut dlrg. fluid							
200' oil and heavy gas cut drlg fluid							
SUCCESSFUL TEST YES							

		RECORDER NO.
		13832
A (INITIAL HYDROSTATIC PRESSURE)		3943 P.S.I.
B (INITIAL PRE-FLOW PRESSURE)		95 P.S.I.
C (FINAL PRE-FLOW PRESSURE)	5 MIN.	89 P.S.I.
D (INITIAL SHUT-IN PRESSURE)	60 MIN.	2727 P.S.I.
E (INITIAL FLOW PRESSURE)		118 P.S.I.
F (FINAL FLOW PRESSURE)	60 MIN.	129 P.S.I.
G (FINAL SHUT-IN PRESSURE)	180 MIN.	2529 P.S.I.
H (FINAL HYDROSTATIC PRESSURE)		4002 P.S.I.

TOTAL DEPTH	9162	MAIN HOLE	7 7/8
DEPTH OF CSG.	4500	CASING SIZE	8 5/8
MUD WT.	8.4	VISCOSITY	28
WATER LOSS	-	CAKE	-
TYPE MUD	Fresh Water		
CHLORIDE	4,000	PPM	
RESISTIVITY	1.7	@	60 °F

PRESSURE IN SAMPLER		90	PSI
BHT	144	°F @	8981 F.T.
OIL:		1000	CC.
WATER:		0	CC.
MUD:	.	500	CC.
GAS:		.430	CU.FT.
RESISTIVITY	1.7	@	60 °F
CHLORIDE		4,000	PPM.
GRAVITY	34	•API @	60 °F
CAPACITY		1800	cc

NO. PACKERS		2		
SIZE PACKERS		6 3/4		
CONVENTIONAL TEST yes				
TYPE TOOL	DEPTH	LENGTH	I.D.	O.D.
4½ XH DP		8396	3.8	4.5
4½ XH DC		502	2.3	6.0
Cir Sub	8898	1		
2 DC		62		
Shut-in		6		
Sampler		3		
Hyd. Tool		5		
Jars		6		
Recorder		5		
Safety Jt.		2		
Packer	8993	6		
Packer	8999	6		
Perf				
4 DC				
Recorder		163'		
DRLG. CONT.		Moranco	RIG #	7

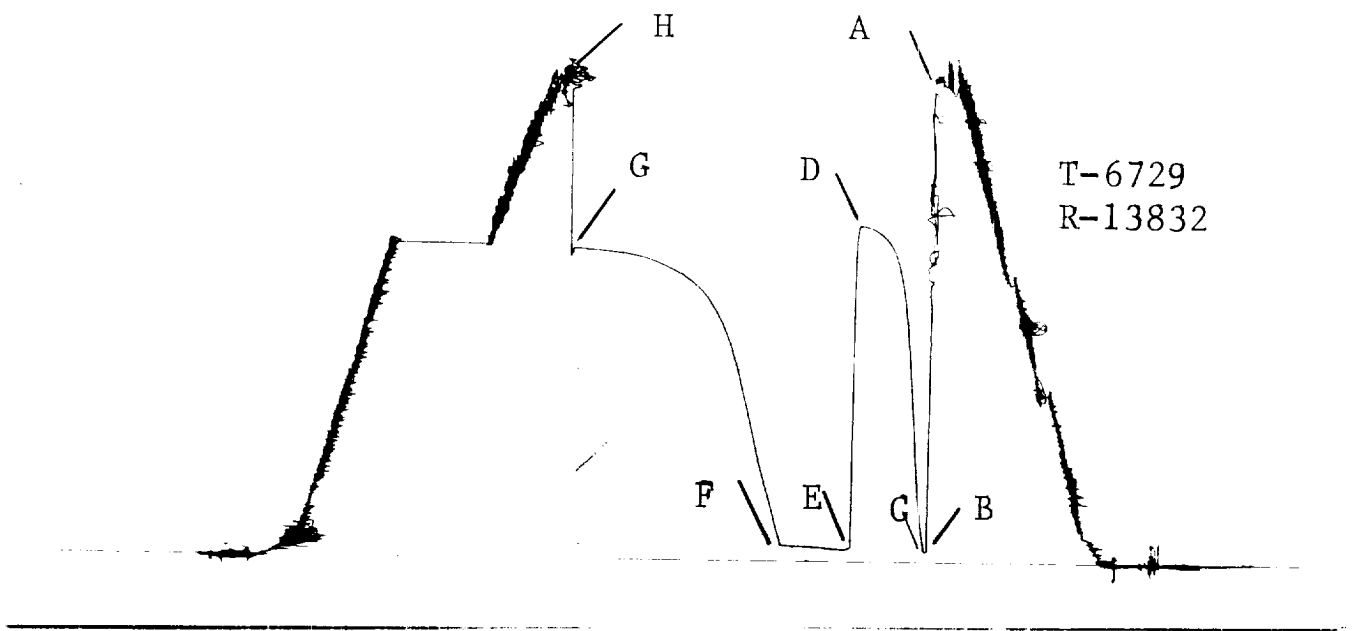
REMARKS: _____

Don Terhune

"ESTER _____"

Jim Yeley

APPROVED BY: _____



RECORDER NO. 13832 DEPTH 8982 FT.

INITIAL FLOW

DT(MIN) PRESSURE(PSIG)

0	95.1
5	88.8

RECORDER NO. 13832 DEPTH 8982 FT.

FINAL FLOW

DT(MIN) PRESSURE(PSIG)

0	118.2
10	99.3
20	107.7
30	116.1
40	120.3
50	122.4
60	128.8

I Hyd 3943.4

F Hyd 4002.1

RECORDER NO. 13832 DEPTH 8982 FT.

INITIAL SHUT-IN

INITIAL FLOW TIME: T = 5 MIN.

<u>DT(MIN)</u>	<u>LOG((T+DT)/DT)</u>	<u>PRESSURE(PSIG)</u>	<u>DP(PSIG)</u>
0		88.8	0.0
1	.778	139.3	50.5
2	.544	231.9	143.2
4	.352	400.5	311.7
6	.263	619.7	530.9
8	.211	847.1	758.4
10	.176	1145.8	1057.1
12	.151	1418.8	1330.0
14	.133	1670.2	1581.4
16	.118	1871.0	1782.3
18	.106	2042.4	1953.6
20	.097	2190.6	2101.8
25	.079	2424.3	2335.5
* 30	.067	2551.5	2462.8
* 35	.058	2614.1	2525.3
* 40	.051	2653.7	2564.9
* 45	.046	2691.2	2602.5
* 50	.041	2714.2	2625.4
* 55	.038	2724.6	2635.8
60	.035	2726.7	2637.9

EXTRAPOLATED PRESSURE: 2962.5 PSI
SLOPE: 6064.5 PSI/LOG CYCLE
POINTS USED: 6

RECORDER NO. 13832 DEPTH 8982 FT.

FINAL SHUT-IN

TOTAL FLOW TIME: T = 65 MIN.

DT (MIN)	LOG((I+DT)/DT)	PRESSURE (PSIG)	DP (PSIG)
0		128.8	0.0
1	1.820	158.2	29.5
2	1.525	202.5	73.7
4	1.237	267.8	139.0
6	1.073	335.2	206.4
8	.960	417.4	288.6
10	.875	489.0	360.3
12	.807	552.2	423.5
14	.751	611.2	482.5
16	.704	678.7	549.9
18	.664	741.8	613.1
20	.628	813.5	684.7
25	.556	1015.5	886.7
30	.501	1208.9	1080.1
35	.456	1418.8	1290.0
40	.419	1588.5	1459.8
45	.388	1756.0	1627.2
50	.362	1873.1	1744.4
55	.339	1971.3	1842.6
60	.319	2054.9	1926.1
70	.285	2188.5	2059.8
80	.258	2272.0	2143.2
90	.236	2334.6	2205.8
100	.217	2380.5	2251.7
110	.202	2422.2	2293.4
120	.188	2453.5	2324.7
130	.176	2474.3	2345.6
* 140	.166	2493.1	2364.4
* 150	.156	2505.6	2376.9
* 160	.148	2518.1	2389.4
* 170	.141	2524.4	2395.6
180	.134	2528.6	2399.8

EXTRAPOLATED PRESSURE: 2706.0 PSI
SLOPE: 1282.0 PSI/LOG CYCLE
POINTS USED: 4

HORNER PLOT

AMERIND OIL COMPANY
STATE #16" #1, DST #2
T-6729, REC. 13832

P#1 = 2962.5 psi 6 pts.
Pwf = 2706.0 psi 4 pts.

